

# START

0026136<sup>14</sup>

## MEETING MINUTES

SUBJECT: 618-11 ERA Environmental Monitoring/Interface Meeting

TO: Distribution

BUILDING: WPPSS PFS

FROM: C. D. Kramer

CHAIRMAN: C. D. Kramer CK

Dept-Operation-Component	Area	Shift	Meeting Dates	Number Attending
Environmental Engineering	RCHN	Day	February 4, 1993	22

PURPOSE: Provide a forum for establishing an integrated approach to environmental monitoring for potential remedial actions at the 618-11 Burial Ground.

### Administration

The meeting commenced at approximately 1:05 pm. Two attendance rosters were circulated while attendees made introductions (attachments 1 & 2). A current Fiscal Year 1993 Expedited Response Action (ERA) schedule was distributed (attachment 3). Meeting minutes for the prior meeting, (December 10, 1992), were distributed at the end of the meeting. No date/time was established for the next interface meeting. The meeting concluded at approximately 2:35 p.m.

### ERA Process Description

Mr. W. L. Johnson, Westinghouse Hanford Company (WHC), provided an overview of the ERA process. Upon recommendation of the U.S. Environmental Protection Agency (EPA) and the State of Washington Department of Ecology (Ecology), the U.S. Department of Energy, Richland Field Office (RL) has begun preparing a formal ERA proposal and an Engineering Evaluation and Cost Analysis (EE/CA) to address removal of potential hazards associated with releases from waste disposed at the 618-11 Burial Ground. ERAs are conducted pursuant to provisions of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended, and the National Contingency Plan (NCP). As non-time critical removal actions, ERAs may have a planning period in excess of 6-months prior to initiation of on-site removal actions. ERAs attempt to identify and address potential hazards due to releases of hazardous substances a site. A variety of response alternatives are examined including a no action alternative. If a physical removal action is selected for 618-11, there may be a limited demonstration of equipment and procedures at similar units in the 618-10 Burial Ground prior to full-scale implementation at 618-11. An EE/CA including the ERA proposed action is subject to a public review and comment period of not less than 30 days. EPA and Ecology consider public opinion in arriving at an Action Memorandum decision. Once a decision is reached, RL may pursue funding, detailed design, procurement, etc. to implement the selected action.



The Washington Public Power Supply System (WPPSS) posed questions regarding the potential liability, including that of the remedial action contractor. WPPSS noted developmental work immediately adjacent to WPPSS facilities is a risk.

Mr. W. L. Johnson (WHC) emphasized expedited response actions were to utilize existing technologies to the fullest extent possible. Dialogue with WPPSS will provide one mechanism for influencing further 618-11 ERA development.

Washington Department of Health noted that the project may be subject to NESHAPS permitting and monitoring requirements.

**ACTION** - Mr. R. G. McLeod, RL, will find out who in RL will address questions WPPSS may have regarding potential liability. The point-of-contact will be provided to Mr. M. J. Davidson and Ms. A. C. Marzette of WPPSS. Mr. McLeod may be contacted, on behalf of RL, for other questions regarding the 618-11 project.

#### Historical Data

Ms. C. R. Webb, WHC, provided information regarding the history of the disposal site. Several photographs were presented. An unpublished 1982 study marked pipe caisson locations and made an aerial photograph of the 618-11 Burial Ground. Other photos showed transport casks, the truck for transporting waste to the pipe and caisson units, waste in 200W caissons and aerials of the 618-11 Burial Ground. Most waste appears to have been paper, plastics, glass, rubber, steel, aluminum cans, concrete, etc. Metallic sodium and potassium (NaK), beryllium residues, contaminated lead metal shielding, technetium oxide, promethium oxide, zirconium cladding material, Sr-90, Pu-238, Np-237, Pu-239, U-235, U-233, Am-241, Cm-244, Cs-147, Pm-147, C-14, Co-60, Ru-103 and other fission products are suspected to have been disposed as well. Several copies of a Pacific Northwest Laboratory (PNL) study entitled, "*Characterization of the Hanford 300 Area Burial Grounds*," PNL-2557, (January 1980) were distributed to WPPSS, EPA, Ecology, WDOH and RL personnel. The study encompassed 618-11 as well as other 300 area burial grounds.

#### Wells

Mr. C. D. Kramer, WHC, presented results of a search of the Hanford Environmental Information System (HEIS) database concluded on February 4, 1993. Information was sought concerning chemical and/or radiological analyses associated with wells within Hanford plant coordinates N17500, N5500, W6500, and E6500. (Plot plan H-6-930 lists the approximate NW corner of 618-11 as N12478, W3562; the SE corner as N12103, W2562). The search focused on wells listed on Attachment 4 of these minutes. (Other wells are known to have existed in the area. All known wells specifically deleted from the search were seismic shot holes with very little possibility of any associated soil and/or groundwater analytical sampling data). The search produced year of the

sample, analytical class, and number of results per class. The *total* number of results associated with each well are shown below. Some of the data is historical and not validated equivalent to current practice. Wells not shown may have data, but it is not available in this major database. Wells names reflect their location. An explanation of well names and details such as coordinates, casing diameter, drill depth, screen intervals, etc. may be found in the PNL publication *Hanford Wells*, PNL-6907 (McGhan 1989).

WELL NAME	COUNT	YEAR
699-11-1A	4	1973
699-12-4B	246	1984-1988
699-13-1A	99	1973-1981
699-13-1B	85	1973-1981
699-13-1C	74	1980-1992
699-14-E6P	69	1966-1982
699-14-E6Q	83	1967-1981
699-14-E6R	60	1967-1981
699-14-E6S	62	1967-1981
699-14-E6T	101	1966-1988
699-17-5	587	1951-1992
699-9-E2	571	1958-1987

#### Status of Monitoring

Mr. J. W. Schmidt, WHC, stated WHC has not yet started special environmental monitoring at either 618-10 or 618-11. Ms. C. J. Card, WPPSS, stated WPPSS has established TLDs around the perimeter of 618-11, taken some ionization chamber readings and collected some surface soil samples.

#### Around the Table-News/Issues/Concerns

Nothing significant to report.

USRADS Field Demonstration

The Ultrasonic Ranging and Data System (USRADS) is a computerized field data collection system capable of recording geographic location with radiological survey or other data. Current surveys are performed with either count rate or dose rate meters. Results of these spatially distributed variables can be output as plots or exported into other software packages for expanded graphical illustration.

USRADS surveys initiated February 4, 1993, at 618-11 Burial Ground. At their option, participants proceeded to the 618-11 site boundary where the USRADS units could be viewed in use.

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Attendance Rooster

9413096.053  
1231.960146



Attendance Rooster

2020-2021  
9/30/2020

COURSE TITLE		 <b>WASHINGTON PUBLIC POWER SUPPLY SYSTEM</b>  <b>EMERGENCY TRAINING ATTENDANCE RECORD</b>		CLASS HOURS	
DATE				STUDENT HOURS	
LESSON CODE				PREP TIME	
EXAM CODE				INSTRUCTOR TIME	
INSTRUCTOR(S)				<input type="checkbox"/> INITIAL <input type="checkbox"/> MAILOUT <input type="checkbox"/> REFRESHER <input type="checkbox"/> PHASE	
STUDENT NAME (PRINT)	SIGNATURE	SOC. SEC. NO.	EMERGENCY POSITION	S/U	INSTRUCTOR USE
1 <del>Daniel S. McGarvey</del>	<del>Daniel S. McGarvey</del>				
2 DANIEL S. MCGARVEY	Daniel S. McGarvey		JOHNSON + HIGGINS		
3 ANDREA C. MARZETTA	Andrea C. Marzetta		SHAW SYSTEM		
4 John W. Schmidt	John W. Schmidt		Westinghouse		
5 Larry Gadbois	Larry Gadbois		EPA		
6 Ron ...	Ron ...		WESTINGHOUSE		
7 Allan Danielson	Allan Danielson		DEPT OF HEALTH		
8 John ERICKSON	John Erickson		DEPT OF HEALTH		
9 Catherine G. Card	Catherine G. Card		WPPSS		
1 MICHAEL J. DAWSON	Michael J. Dawson	533-641-7506	Attorney/SS		
2 Kris A. Smith	Kris A. Smith		WHE Health Physics		
3 S. L. Demery	S. L. Demery		WHE Health Physics		
4 (D) Wade	(D) Wade		" " "		
5 F. ZWISLER	F. ZWISLER		WDOH		
6 NANCY HIZEMBLO	Nancy Hizemblo		WA State Dept. Ecology		
7 Hal Murray	Hal Murray		WHE		
8 BOB McLEOD	Bob McLeod		DIE		
9 Wayne Johnson	Wayne Johnson		WHE		
10 Gary E. Christa	Gary E. Christa		Supply System		
11 Chris Webb	Chris Webb		WHE		
12					
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Fiscal Year 1993 ERA Schedule

9/19/92 14:58:00

## 618-11 Burial Ground ERA FY93

Printed: February 1, 1993

FY 1993

Oct.

Jan.

Apr.

July

FY 1994

Oct.

## Project Management

## Preliminary Safety Analysis

### Photographic Record Search

Written Record Evaluation (Historical)

# Draft Technical Baseline Characterization Report (Historical Baseline)

## Baseline Environmental Monitoring & Assessments

## Transportation & Packaging -- Removal Option Assessments

Draft Conceptual Waste Disposal Plan

### Determine Level of Required NEPA Documentation

## Radiological Surveys

## Topographic Mapping

## Initial Cultural Resource Review

## Non-intrusive Geophysics

Project Engineering Evaluation/  
Cost Assessment Report  
(Draft for Review 6/30/93)

Oct.

Jan.

1  
Apr.

July

Oct.

Focus List of Wells for HEIS Data Query

2017-06-16  
11:10:16  
2017-06-16  
11:10:16

## 2/4/93 MEETING MINUTES--ATTACHMENT 4

## FOCUS LIST OF WELLS FOR HEIS DATA QUERY

NAME	ZONE MONITORED	FORMER NAME (Hanford Wells 1989)
699-6-2		
699-6-2A	Upper Unconfined	BH-137
699-9-E2	Upper Unconfined	6-9-E4
699-9-E4A	Upper Unconfined	DB-18
699-9-E5A		BH-138 OR 6-9-E5
699-10-1	Upper Unconfined	B-24
699-10-2	Upper Unconfined	B-23
699-10-3A	Upper Unconfined	B-36
699-10-3B	Upper Unconfined	1A-SP-8
699-10-3C	Upper Unconfined	
699-10-3D	Upper Unconfined	
699-10-3E	Upper Unconfined	
699-10-3F	Upper Unconfined	
699-10-5A		
699-10-5B		
699-10-E3A	Destroyed	DB-3
699-10-E3B	Destroyed	DB-11
699-10-E3C	Upper Unconfined	DB-17
699-10-E4A	Upper Unconfined	DB-4
699-10-E4B	Upper Unconfined	1B-SP-13
699-10-E4C	Upper Unconfined	DB-7
699-10-E4D	Destroyed	DB-8
699-10-E4E	Destroyed	DB-8A
699-10-E4F	Destroyed	DB-8A Redrill
699-10-E4G	Upper Unconfined	DB-9
699-10-E4H	Destroyed	DB-10
699-10-E4J	Destroyed	DB-10A
699-10-E5A	Shot Hole	(DB-19)
699-10-E5B	Destroyed	1C-SP-6
699-11-0A	Upper Unconfined	CONS#3WPPSS2
699-11-0B	Destroyed	B-16
699-11-1A	Upper Unconfined	CONS#2WPPSS2
699-11-1B	Upper Unconfined	B-14
699-11-1C	Upper Unconfined	B-15
699-11-1D	Destroyed	B-19
699-11-1E	Upper Unconfined	B-22
699-11-1H	Upper Unconfined	B-33
699-11-1J	Destroyed	B-34
699-11-1K	Upper Unconfined	B-17
699-11-2	Destroyed	B-21
699-11-3	Upper Unconfined	B-18
699-11-E3A	Destroyed	DB-13
699-11-E3B	Destroyed	DB-13A
699-11-E3C	Destroyed	DB-15
699-11-E3D	Destroyed	DB-12
699-11-E4C	Destroyed	DB-14
699-11-E4D	Destroyed	DB-16
699-11-E4E	Destroyed	DB-1, BH-140
699-12-1A	Upper Unconfined	B-12, CONS.#1 WPPSS 2
699-12-1B	Destroyed	B-1
699-12-1C	Destroyed	B-2
699-12-1D	Destroyed	B-3
699-12-1E	Destroyed	B-4
699-12-1F	Destroyed	B-5
699-12-1G	Destroyed	B-6
699-12-1H	Destroyed	B-7
699-12-1J	Destroyed	B-8
699-12-1K	Destroyed	B-9
699-12-1L	Destroyed	B-10
699-12-1P	Destroyed	B-29
699-12-1Q	Destroyed	B-30
699-12-1R	Destroyed	B-31
699-12-1S	Destroyed	B-32
699-12-2A	Upper Unconfined	B-SP-6, 6-12-2
699-12-2B	Shot Hole	(B-13)
699-12-4A	Shot Hole	(6-12-4)
699-12-4B	Shot Hole	(1D-SP-3)
699-12-4D	Upper Unconfined	
699-12-E3	Upper Unconfined	CB-16
699-13-1A	Upper Unconfined	WPPSS2 #1
699-13-1B	Upper Unconfined	WPPSS2 #2
699-13-1C		

## 2/4/93 MEETING MINUTES--ATTACHMENT 4

NAME	ZONE MONITORED	FORMER NAME (Hanford Wells 1989)
699-13-2A	Upper Unconfined	
699-13-2B	Upper Unconfined	B-35
699-13-2C	Destroyed	1D-SP-5
699-13-E2A	Destroyed	CB-5
699-13-E2C	Upper Unconfined	CB-14
699-13-E2D	Destroyed	
699-13-E3A	Destroyed	CB-3
699-13-E3B	Destroyed	CB-3AA
699-13-E3C	Destroyed	CB-3A
699-13-E3D	Upper Unconfined	CB-4
699-13-E3E	Destroyed	CB-8
699-13-E3F	Destroyed	CB-11
699-13-E3G	Destroyed	CB-12
699-13-E3H	Upper Unconfined	CB-15
699-13-E3J	Upper Unconfined	CB-17
699-13-E4A	Upper Unconfined	CB-18
699-13-E4B	Upper Unconfined	1C-SP-10
699-13-E4C	Destroyed	1C-SP-17
699-14-1A	Upper Unconfined	
699-14-E2A	Upper Unconfined	CB-7
699-14-E2B	Upper Unconfined	CB-6
699-14-E3A	Destroyed	CB-2
699-14-E3B	Destroyed	CB-9
699-14-E3C	Destroyed	CB-10
699-14-E3D	Upper Unconfined	CB-19
699-14-E3E	Upper Unconfined	CB-1, BH-142
699-14-E6P		
699-14-E6Q		
699-14-E6R		
699-14-E6S		
699-14-E6T		
699-15-0	Upper Unconfined	B-SP-9
699-15-3	Upper Unconfined	R2-SP-6
699-15-4	Upper Unconfined	R2-SP-7
699-15-E3A		BH-144, 6-15-E3
699-16-E3A	Upper Unconfined	1C-SP-14
699-16-E4A	Upper Unconfined	BH-139A, 6-16-E4
699-17-3	Shot Hole	B-20
699-17-5	Upper Unconfined	USGS NO.9 17.4-4.5

## DISTRIBUTION

### OFFSITE

#### Johnson & Higgins

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(copy given to A. C. Marzette, WPPSS)

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Richland Field Office  
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R. G. McLeod A5-19

Westinghouse Hanford Company  
R. J. Boom T1-30  
S. K. Demers N1-06  
H. D. Downey H6-27  
G. C. Henckel H6-04  
W. L. Johnson H6-04  
C. D. Kramer H6-04  
J. W. Schmidt T1-30  
K. A. Smith N1-06  
C. D. Wade N1-06  
C. R. Webb H6-04  
EDMC H6-08  
Field File Custodian H6-08  
(618-11 Burial Ground ERA)  
CDK File/LB

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